



# RAD51 Polyclonal Antibody

Catalog Number PA5-27195

Product Data Sheet

Details		Species Reactivity	
Size	100µL	Tested species reactivity	Human, Mouse
Host / Isotype	Rabbit / IgG	Tested Applications	Dilution *
Class	Polyclonal	Immunocytochemistry (ICC)	1:100-1:1000
Type	Antibody	Immunofluorescence (IF)	1:100-1:1000
Immunogen	Recombinant fragment corresponding to a region within amino acids 1 and 228 of Human Rad51	Immunohistochemistry (Paraffin) (IHC (P))	1:100-1:1000
Conjugate	Unconjugated	Immunoprecipitation (IP)	Assay-Dependent
Form	Liquid	Western Blot (WB)	1:500-1:3000
Concentration	1.11mg/ml	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Purification	Antigen affinity chromatography		
Storage Buffer	0.1M tris glycine, pH 7, with 10% glycerol		
Contains	0.01% thimerosal		
Storage Conditions	-20° C, Avoid Freeze/Thaw Cycles		

## Product Specific Information

PA5-27195 targets Rad51 in IF, IHC (P), and WB applications and shows reactivity with Human and mouse samples.

The PA5-27195 immunogen is recombinant fragment corresponding to a region within amino acids 1 and 228 of Human Rad51.

## Background/Target Information

The protein encoded by this gene is a member of the RAD51 protein family. RAD51 family members are highly similar to bacterial RecA and Saccharomyces cerevisiae Rad51, and are known to be involved in the homologous recombination and repair of DNA. This protein can interact with the ssDNA-binding protein RPA and RAD52, and it is thought to play roles in homologous pairing and strand transfer of DNA. This protein is also found to interact with BRCA1 and BRCA2, which may be important for the cellular response to DNA damage. BRCA2 is shown to regulate both the intracellular localization and DNA-binding ability of this protein. Loss of these controls following BRCA2 inactivation may be a key event leading to genomic instability and tumorigenesis. Two alternatively spliced transcript variants of this gene, which encode distinct proteins, have been reported. Transcript variants utilizing alternative polyA signals exist.

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